

## **OPTICAL TRACKING DEVICE FOR COMPUTERS**

### **ABSTRACT OF THE DISCLOSURE**

An optic tracking device includes a movable body having a bottom movably supported on a pad. The bottom of the body defines a cavity for

- 5      accommodating an optic sensor comprised of a number of photo transistors encased in a transparent casing. A light emitting element is mounted in the body to project light to the pad at a position substantially below the optic sensor. The light is reflected by the pad and detected by the optic sensor. The pad forms a number of light reflective zones spaced from
- 10     each other and surrounded by a light absorbing area whereby when the body is moved on the pad, light reflected from the pad and detected by the optic sensor changes with the movement of the body that alternately passes through the light reflective zones and different portions of the light absorbing area. The optic sensor converts the light reflected from the pad
- 15     into an electrical signal, which is processed by a signal processing circuit to generate data corresponding to moving speed and direction of the body.